
Hepatitis C Surveillance and Epidemiology in New York City

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Hepatitis C Surveillance in NYC

- High volume of reports
 - >200,000 hepatitis C labs
 - >90% of reports are imported electronically from labs
- Reportable hepatitis C tests: positive antibody, negative and positive RNA, genotype, ALTs reported if on same accession as a reportable lab
 - Not reportable: negative antibody, positive rapid antibody
- Surveillance Program Goals
 - Describe the epidemiology of chronic hepatitis C
 - Estimate prevalence in NYC
 - 1.4% (116,000) New Yorkers with chronic hepatitis C (*Bocour et al, Epidemiol & Infect, 2018*)
 - Monitor appropriate diagnostic testing, linkage to care and cure

Demographic Data from Laboratory Reports

Demographic
information
received

- Name
- Date of birth
- Social security number
- Sex
- Age
- Address
- Phone number

Do not receive

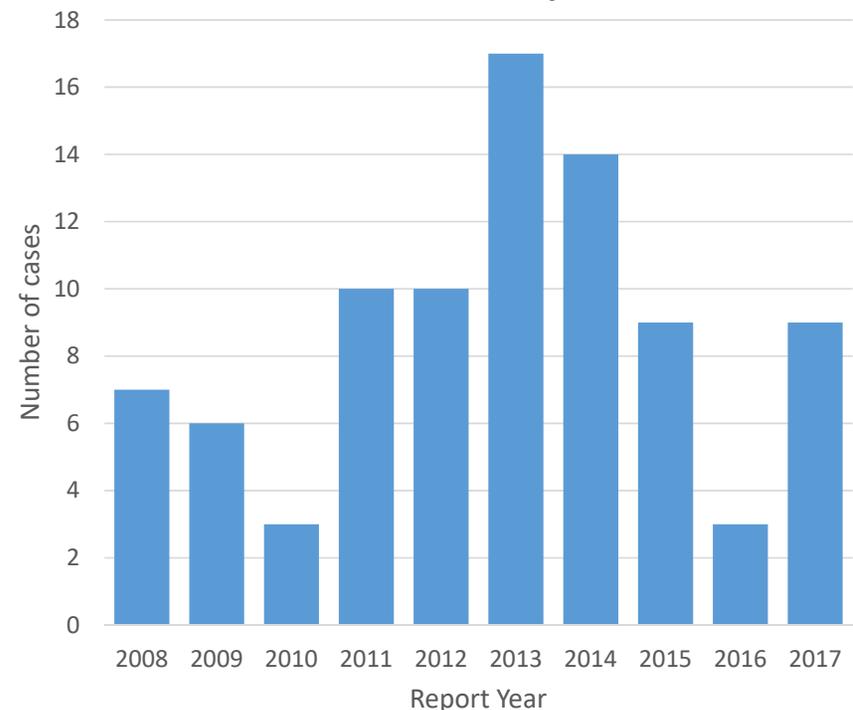
- Race/ethnicity
- Country of birth
- Risk factors

Acute Hepatitis C

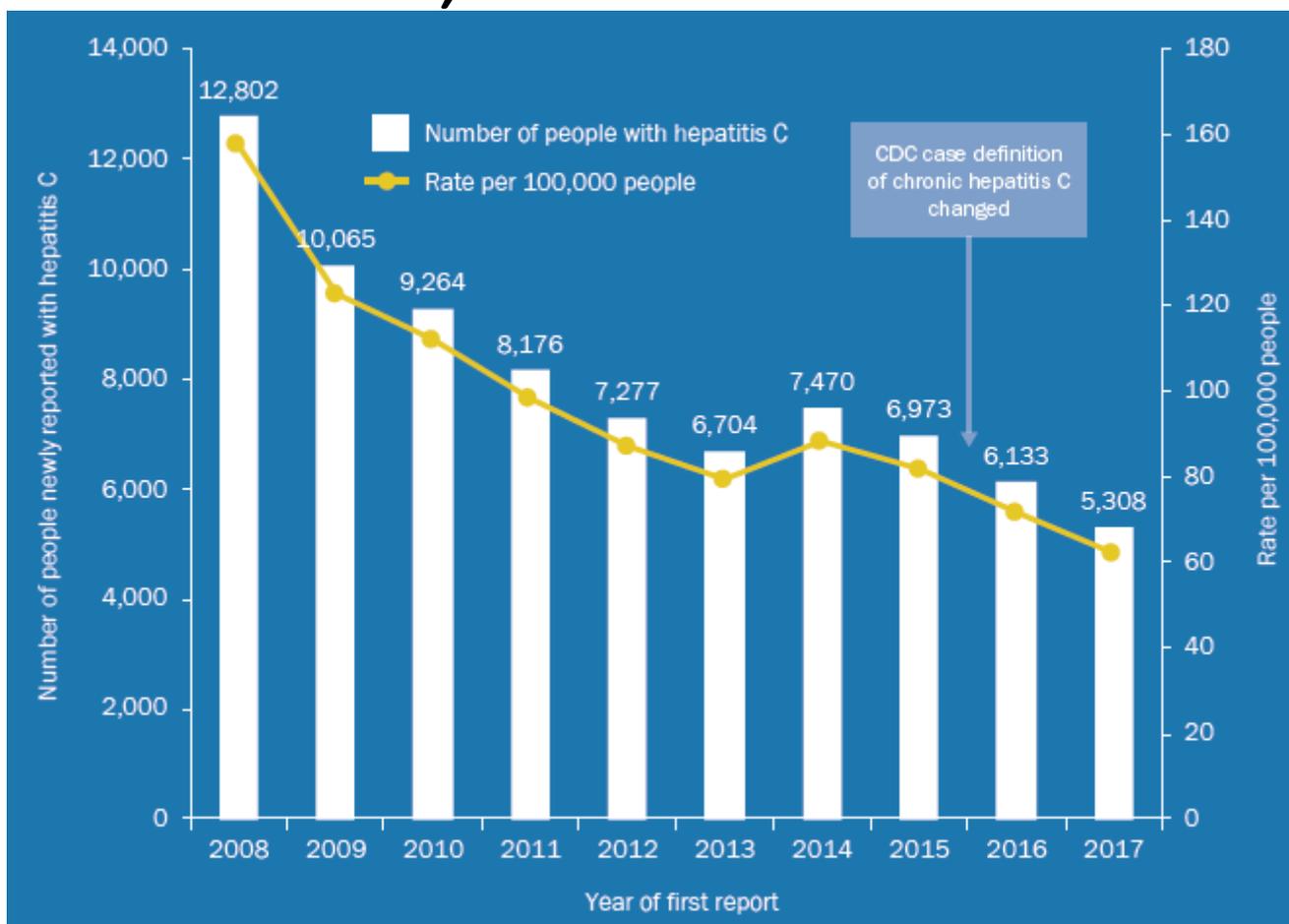
Acute hepatitis C case finding:

- Not reliably reported by providers
- Without negative antibody test results, cannot identify seroconversions
- Currently identified through dialysis center reports and enhanced surveillance investigations

Number of reported confirmed acute hepatitis C cases, New York City 2008–2017

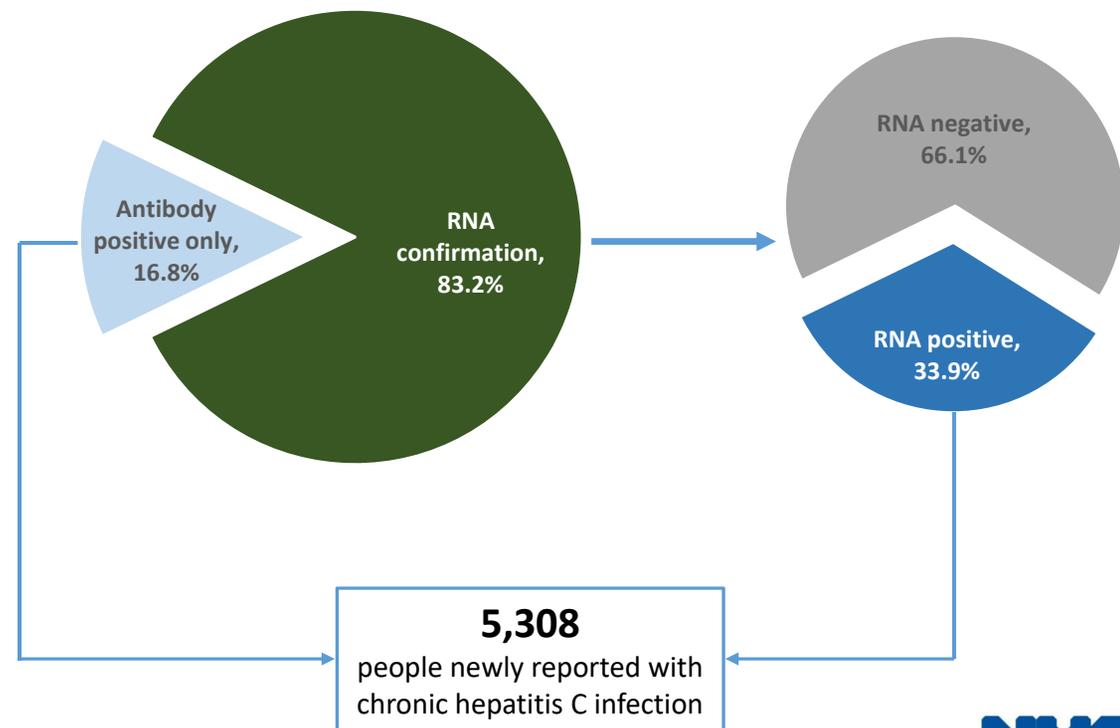


People Newly Reported with Chronic Hepatitis C in NYC, 2008–2017

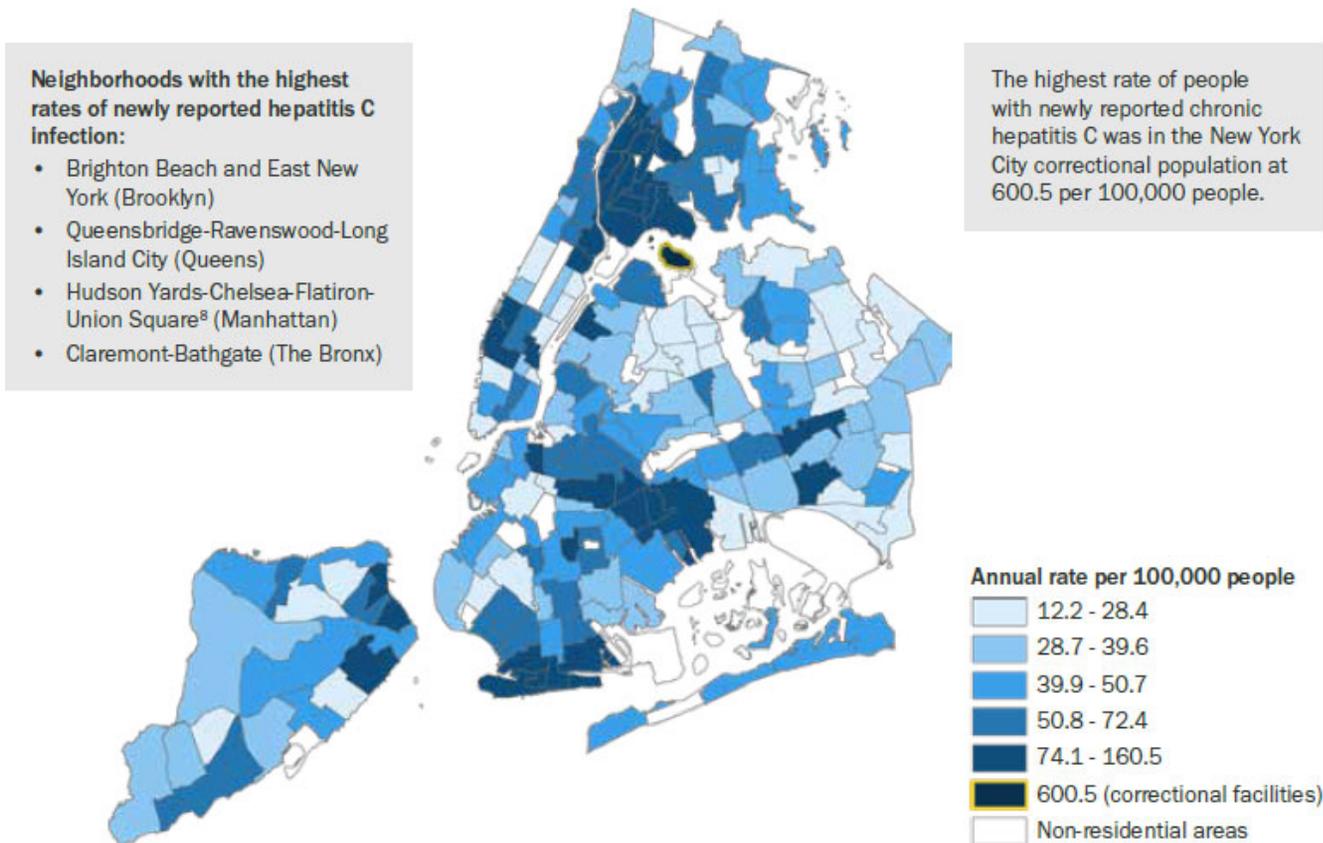


Confirmatory Testing for Chronic Hepatitis C Infection

- In 2017, 11,786 people were reported with a positive antibody test
 - 9,801 (83.2%) had confirmatory testing
 - Two-thirds (66.1%) were antibody positive/RNA negative
 - Two-thirds (65.8%) had a reflex RNA test
 - 5,308 were antibody or RNA positive

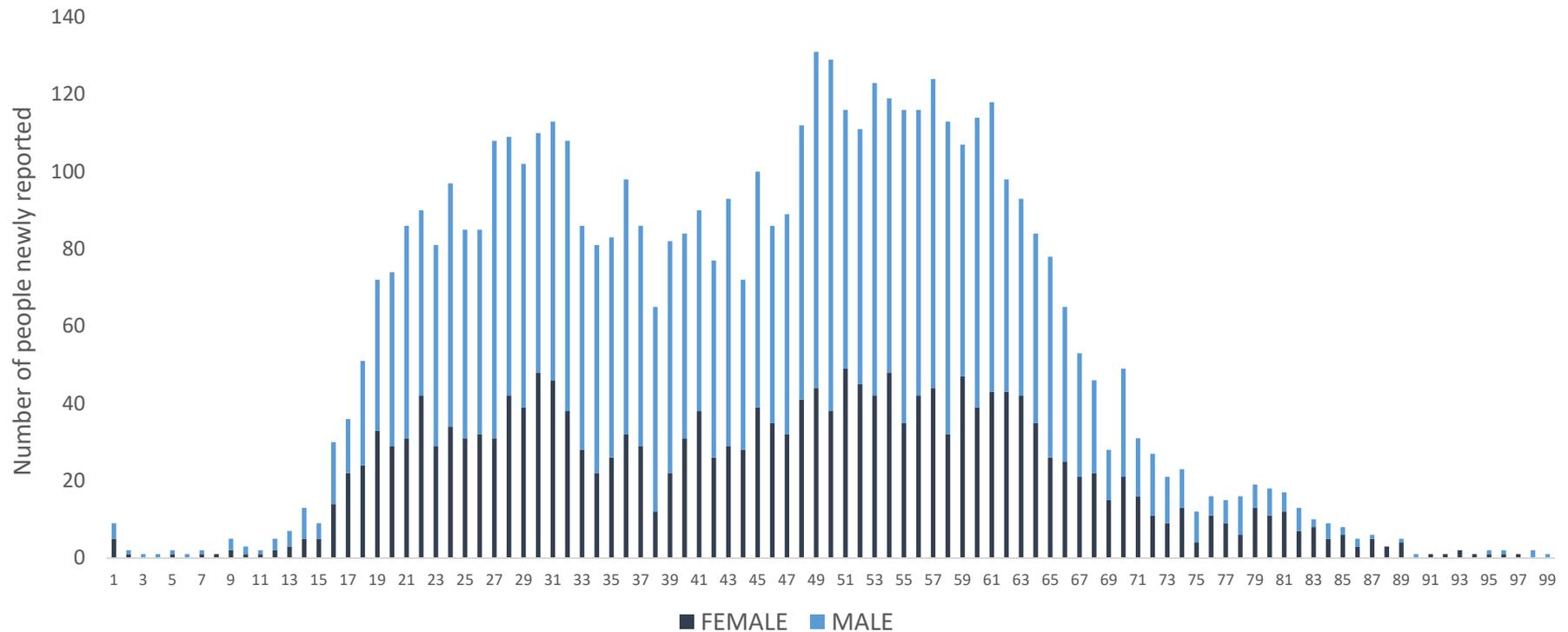


Rates of People Newly Reported with Hepatitis C in NYC by Neighborhood*, 2017



*Neighborhood Tabulation Area: <https://www1.nyc.gov/site/planning/data-maps/open-data/dwnnynta.page>

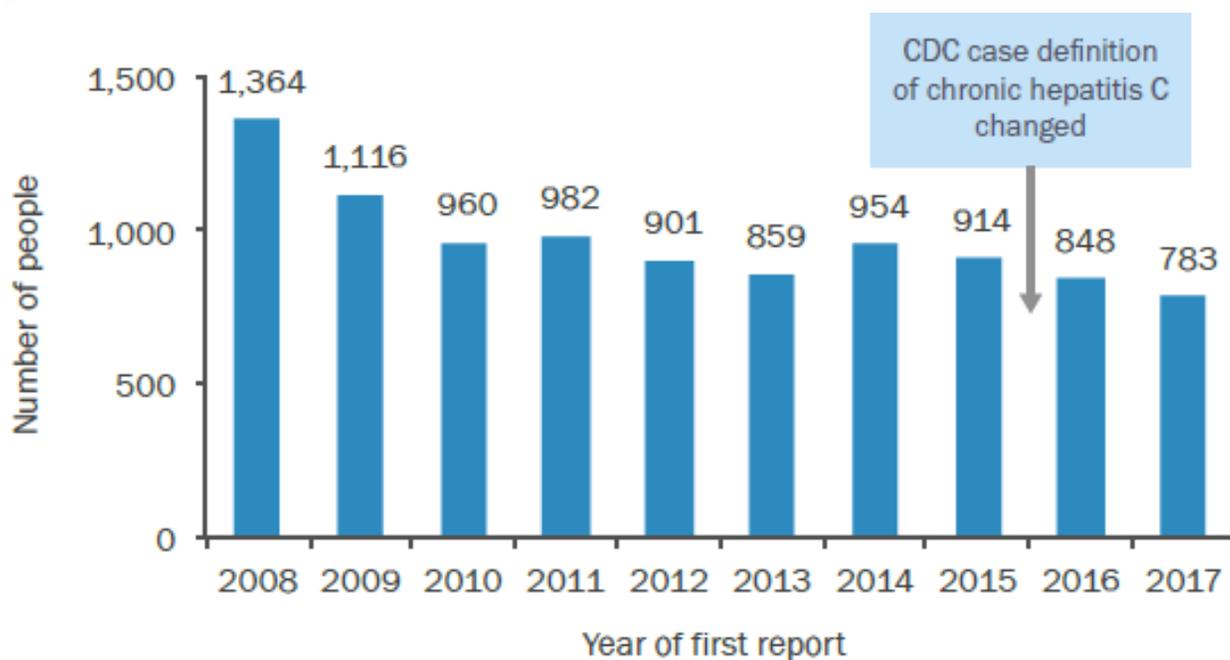
Age Distribution of People Newly Reported with Chronic Hepatitis C in NYC, 2017



Women of Childbearing Age (15-44 years) Newly Reported with Chronic Hepatitis C

783 | Number of women of childbearing age newly reported with hepatitis C infection in 2017

40.7 | Rate per 100,000 people in 2017

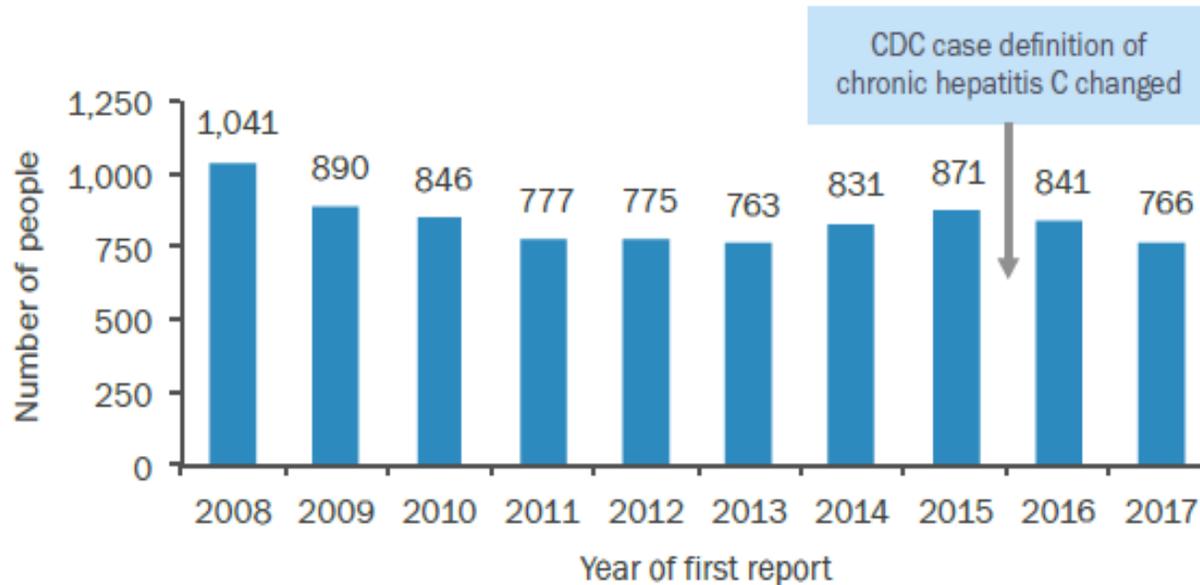


People Ages 0 to 29 Newly Reported with Chronic Hepatitis C, NYC

766 | Number of people ages 0 to 29 newly reported with hepatitis C infection in 2017

22.7 | Rate per 100,000 people in 2017

92% | Among people ages 0 to 29, percentage of whom are 20 to 29

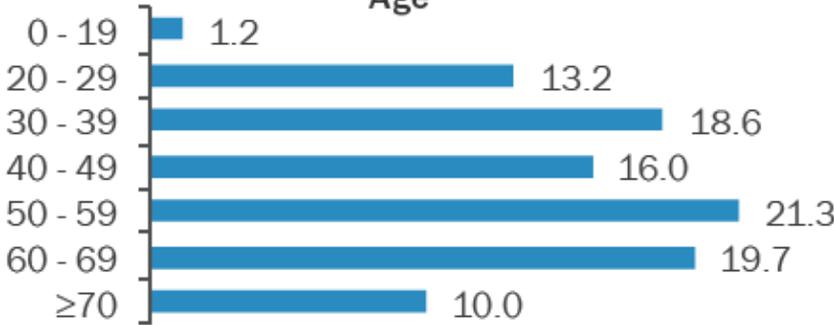


Characteristics of People Newly Reported with Chronic Hepatitis C, 2017

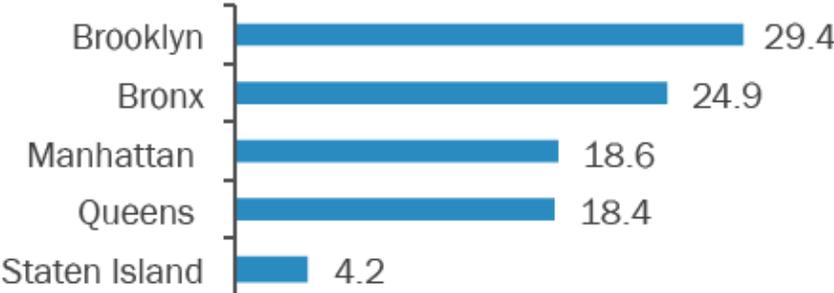
Sex



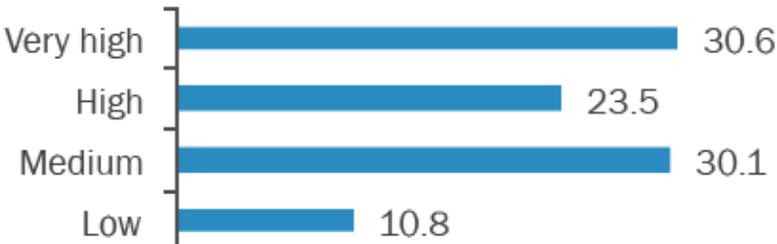
Age



Borough⁶



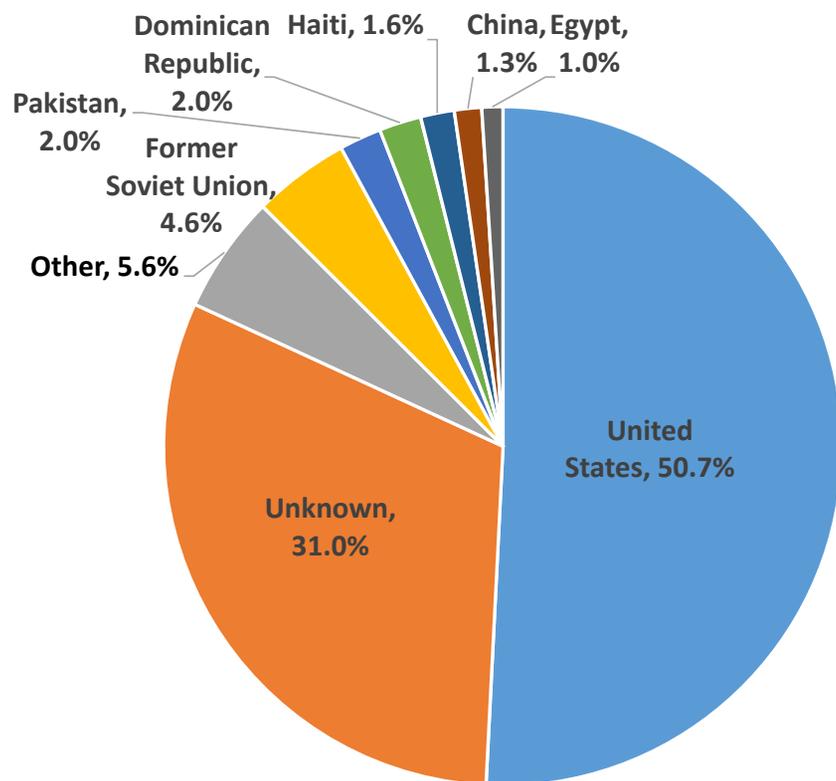
Neighborhood poverty level



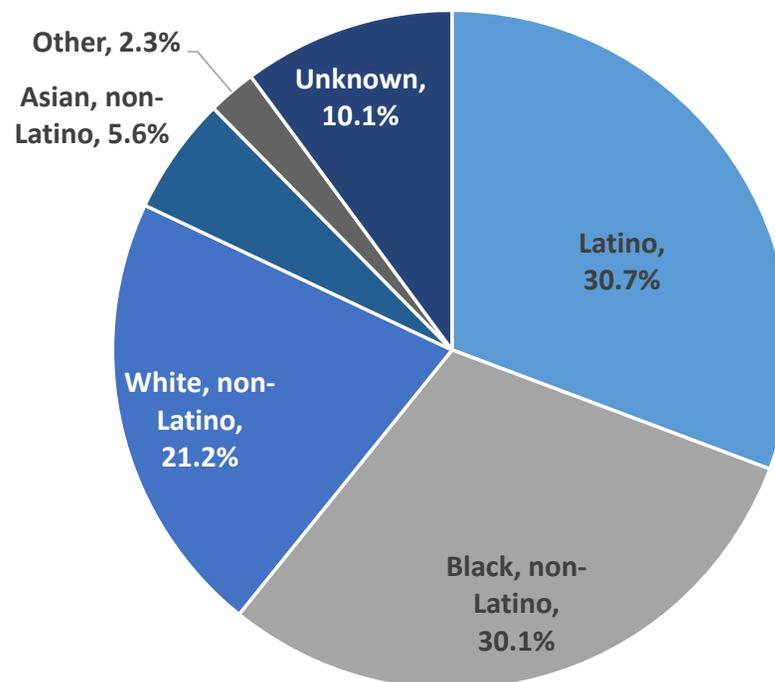
⁶ The Bronx includes people in Rikers Island facilities. In 2017, 204 people were reported with hepatitis C from Rikers Island.

Enhanced Chronic Hepatitis C Surveillance, July 2009-October 2012

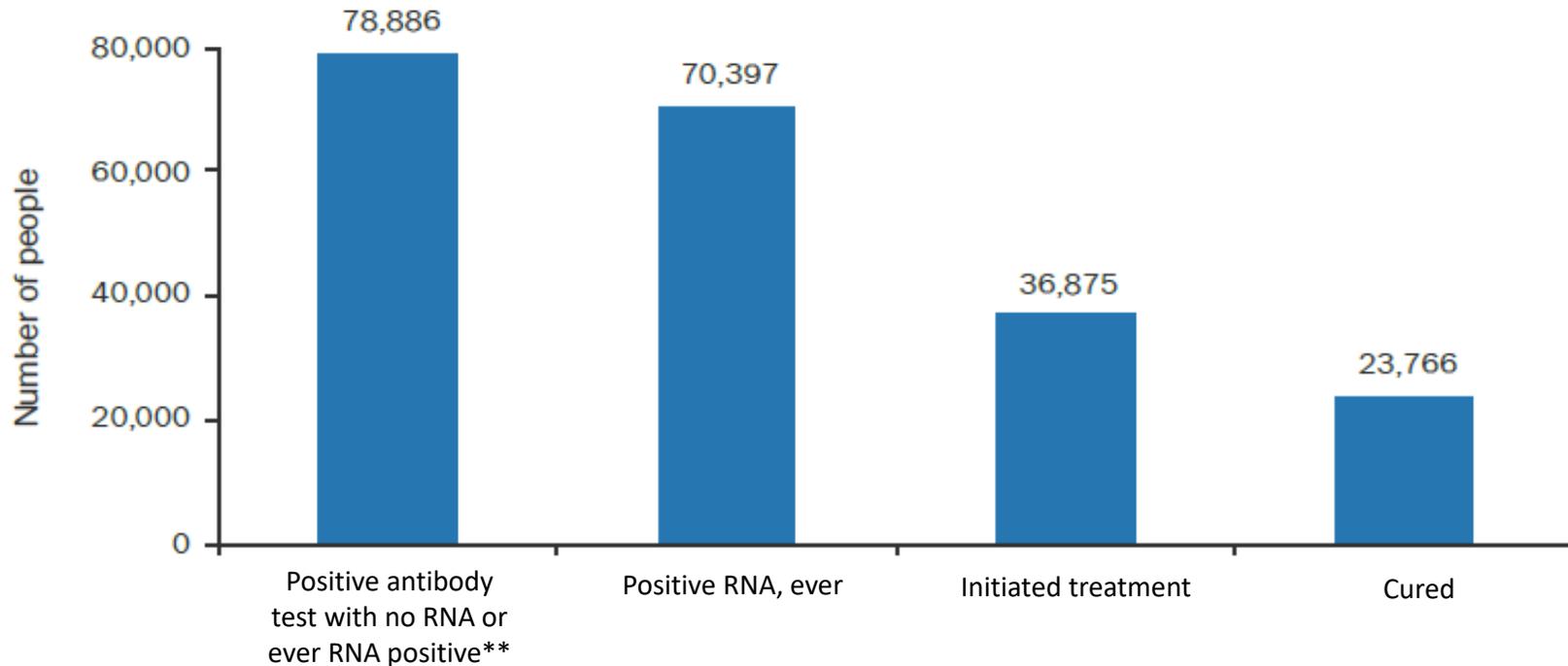
Country of Birth



Race/Ethnicity



Hepatitis C Care Cascade for NYC Residents*



*People reported to the NYC Health Department through June 30, 2017 with any hepatitis C test since July 1, 2014-June 30, 2017

**People with a positive antibody and only a negative RNA test are excluded from the first bar

Viral Hepatitis Resources

EpiQuery: NYC Interactive Health Data
nyc.gov/health/epiquery

Communicable Disease Surveillance Data (CDSD)

Select a Year: 2017* Trend (all available years)

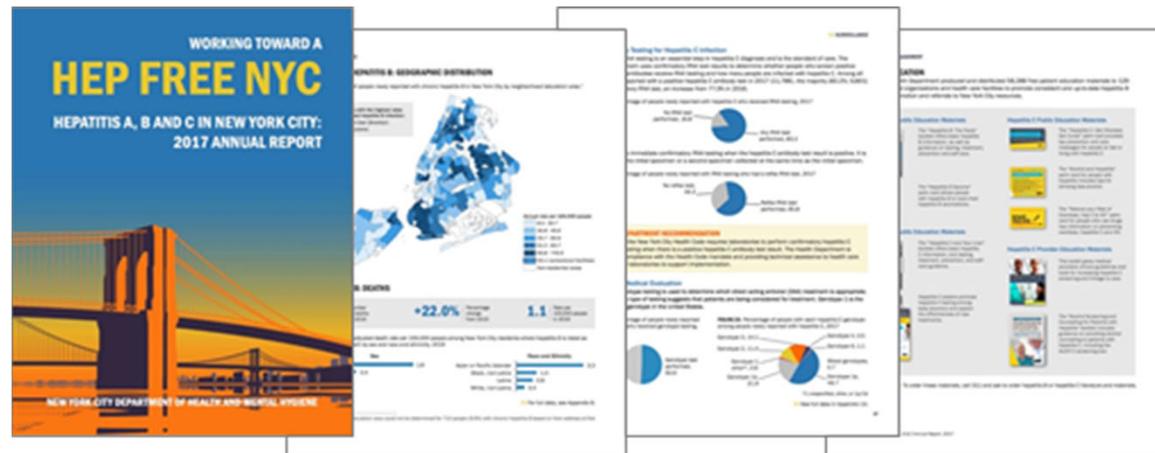
Choose a Category

All Top 10† Foodborne‡ Parasitic Zoonotic and Vector-borne Hepatitis Other

Select a Disease

Hepatitis A
Acute Hepatitis B
Chronic Hepatitis B
Acute Hepatitis C
Chronic Hepatitis C
Hepatitis D
Hepatitis E
Hepatitis, other or unspecified infectious

Hepatitis A, B and C in New York City: 2017 Annual Report



<https://www1.nyc.gov/assets/doh/downloads/pdf/cd/hepatitis-abc-annual-report-2017.pdf>

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